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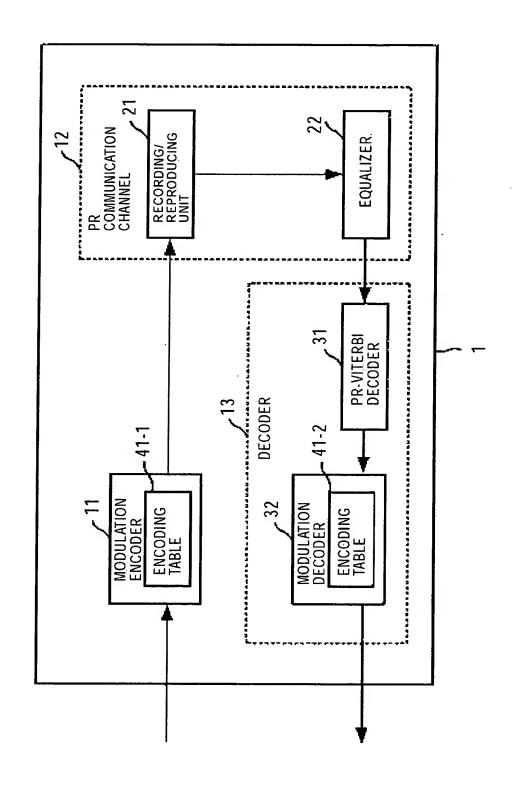


FIG.

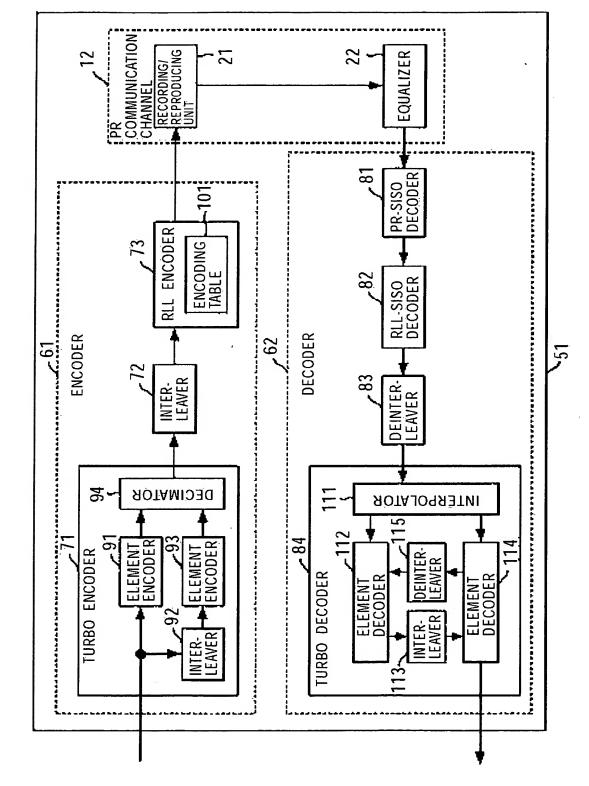
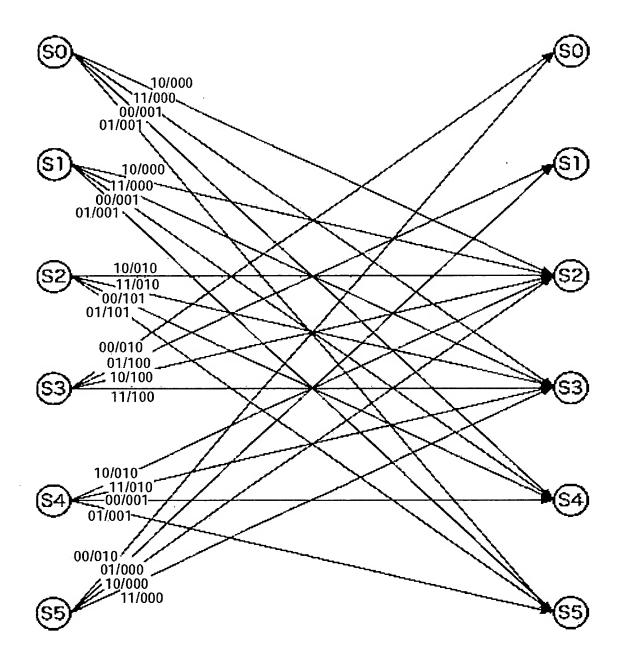


FIG. 2

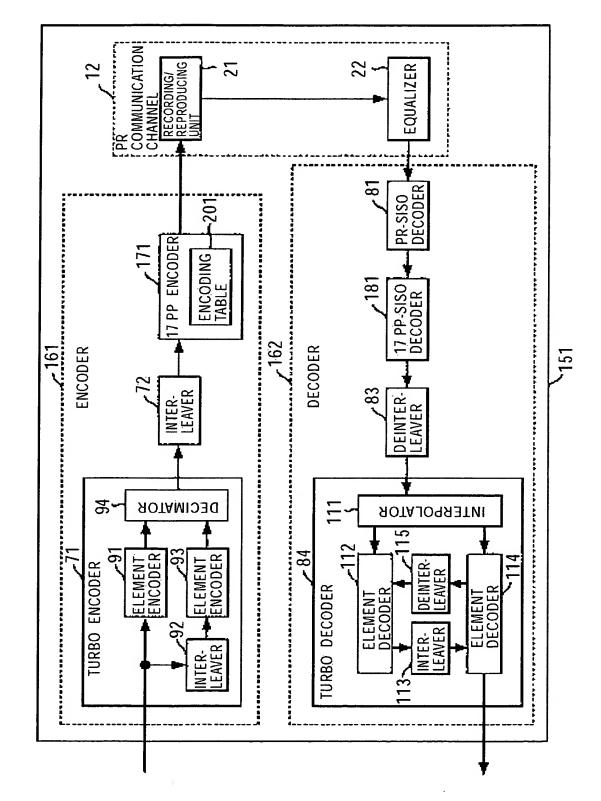
FIG. 3

PREVIOU: -TIME	PREVIOUS -TIME	PREVIOUS -TIME	CURRENT- TIME	CURRENT TIME	CURRENT- TIME
STATE	OUTPUT	INPUT	OUTPUT	INPUT	STATE
S 0	0000	00 00 00 00	001 001 000 000	00 01 10 11	\$5523 \$503
\$ī	0000	01 01 01 01	001 001 000 000	00 01 10 11	\$4 \$5 \$2 \$3
S2	0000	10 10 10 10	101 101 010 010	00 01 10 11	\$4 \$5 \$2 \$3
\$3	0000]]]]]]	010 100 100 100	00 01 10 11	\$0 \$1 \$2 \$3
S4]]]	00 00 00	001 001 010 010	00 01 10 11	\$4 \$5 \$2 \$3
S5]]]	01 01 01 01	010 000 000 000	00 01 10 11	S0 S1 S2 S3

FIG. 4



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F1G.

FIG. 6

	INPUT BIT STRING	OUTPUT BIT STRING	CONDITION	
	00 00 00 00	010 100 100 100		
	00 00 10 00	000 100 100 100		
	00 00 00	010 100 000		
	00 00 01	010 100 100		
	00 00 10	000 100 000		
	00 00 11	000 100 100		
	00 01	000 100		
	00 10	010 000		
	00 31	010 100		
	01	010		
	-10	001		
	11	000	FINAL PREVIOUS-TIME OUTPUT = 1	
		101	FINAL PREVIOUS-TIME OUTPUT = 0	212
				1
INPUT TO BE	BIT STRING BI REPLACED A	T STRING OUTPUT AS RESULT OF REPLACEMEN	CONDITION FOR REPLACEMENT	
1101		001 000 000	NEXT-TIME OUTPUT STRING = 010	BIT
TO BE	REPLACED A	RESULT OF REPLACEMEN	REPLACEMENT NEXT-TIME OUTPUT	BIT

FIG. 7

CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT
SO	01	នា	010
SO	10	SO	001
SO	00	54	000
SO	00	S 5	010
SO	00	S8	010
SO	00	S6	010
SO	00	S 9	000
SQ	00	S7	000
\$0	11	\$3	000
SO	11	\$16	001
SI	01	S1	010
Sl	10	SO	001
\$1	00	S4	000
\$1	00	S5	010
\$1	00	\$8	010
\$1	00	\$6	010
\$1	00	\$9	000
SI	00	S7	000
Sì	11	S2	101
\$1	11	S16	001
\$2	01	\$17	010
\$2	10	\$0	001
\$2	00	\$4	000
\$2	00	S5	010
S2	00	\$8	010
\$2	00	\$6	010
\$2	00	\$9	000
\$2	00	\$7	000
\$2	71	\$3	000
S 2	11	S16	001

FIG. 8

	CURRENT- CURRENT-		CURRENT- TIME
TIME STATE	TIME INPUT	TIME STATE	OUTPUT
S3	01	\$17	010
\$3	10	SO	001
S 3	00	\$4	000
S 3	00	\$5	010
S3	00	S8	010
S 3	00	S6	010
S 3	00	\$9	000
S3 .	00	S7	000
S3	ון	S2	101
S 3	11	\$16	001
\$4	01	\$1	100
\$5	10	SI	000
\$5	11	\$1	100
S6	00	S10	100
S7	00	SII	100
\$8	00	\$12	100
\$9	00	\$13	100
S10	01	SI	100
SII	11	S1	100
512	00	S14	100
S12	00	S15	000
\$13	10	S14	100
S 13	10	515	000
S14	00	Sl	100
S15	01	SI	010
S15	10	SO	001
\$15	11	S2	101
S15	17	S16	001
\$16	01	\$18	000

FIG. 9

CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT
\$17	01	S1	010
\$17	10	\$O	001
S17	11	S19	101
S17	00	S4	000
\$17	00	\$5	010
S17	00	88	010
S17	00	S6	010
\$17	00	S9	000
S17	00	S7	000
S18	11	S20	000
\$19	10	SO	001
\$19	00	\$4	000
S19	00	S9	000
S19	00	S 7	000
\$19	11	S 3	000
\$19	11	\$16	001
S20	01	SI	010
S20	00	\$5	010
\$20	00	\$8	010
S20	00	S6	010

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FIG. 10

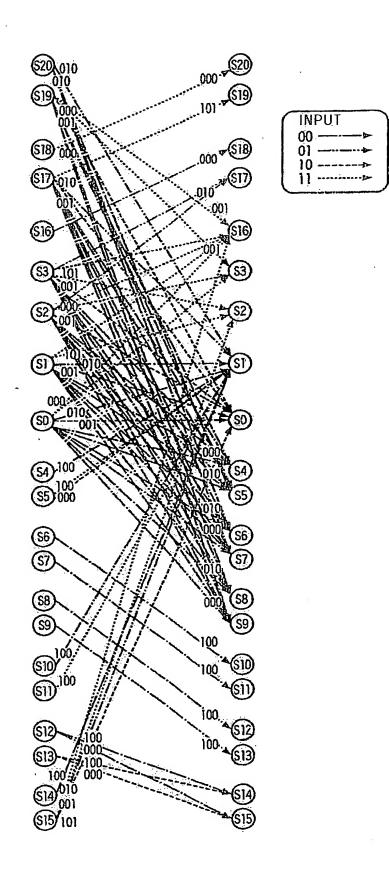


FIG. 11

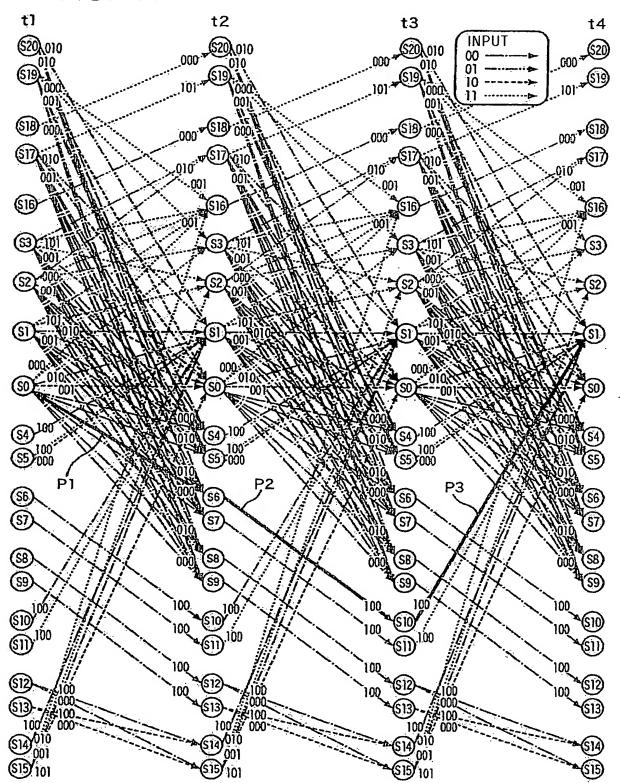


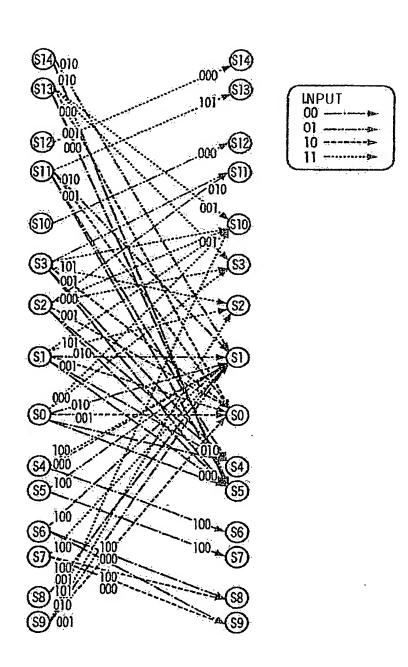
FIG. 12

TIME	CURRENT- TIME	TIME	CURRENT- TIME
STATE	INPUT	STATE	OUTPUT
SO	01	SI	010
SO	10	SO	001
SO	00	S5	000
SO	00	S4	010
SO	וו	S3	000
SO	וו	S10	001
SI	01	SI	010
SI	10	SO	001
SI	00	\$5	000
SI	00	S4	010
Sl	11	S2	101
SI	11	S10	001
S2	01	SII	010
S2	10	SO	001
S2	00	S5	000
S2	00	S4	010
S2	וו	S 3	000
S2	11	S10	001
S3	01	SII	010
S3	10	SO	001
S3	00	S5	000
S 3	00	S4	010
S 3	11	S2	101
S 3	11	S10	001
S4	00	S6	100
\$4	10	SI	000
\$4 \$4	11	SI	100

FIG. 13

TIME	CURRENT- TIME	NEXT- TIME	CURRENT- TIME
STATE	INPUT	STATE	OUTPUT
S5	00	S7	100
S 5	01	SI	100
\$6	01	SI	100
S6	00	S8	100
S6	00	S 9	000
S7	וו	S1	100
\$7	10	\$8	100
S7	10	\$9	000
S8	QQ.	\$1	100
S9	01	\$1	010
S 9	10	SO	001
S9	וו	SZ	101
59	11	S10	001
S10	01	S12	000
\$31	01	\$1	010
S11	10	SO	001
SH	11	\$13	101
\$11	00	\$5	000
S 11	00	54	010
S12	11	\$14	000
S13	10	SO	001
S13	00	\$5	000
S13	11	\$3	000
\$13	11	\$10	001
\$14	Q1	SI	010
\$14	00	\$4	010

FIG. 14



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FIG. 15

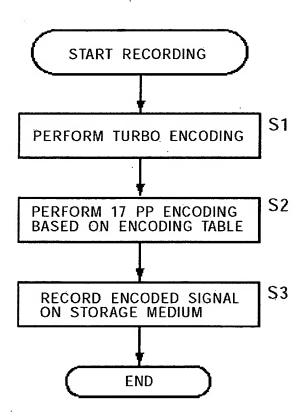


FIG. 16

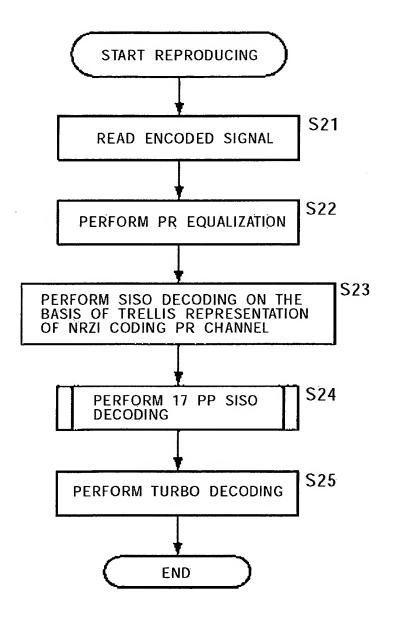


FIG. 17

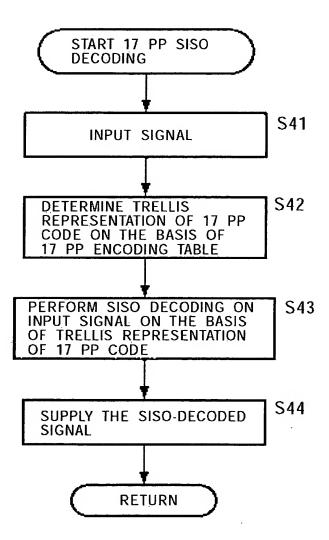
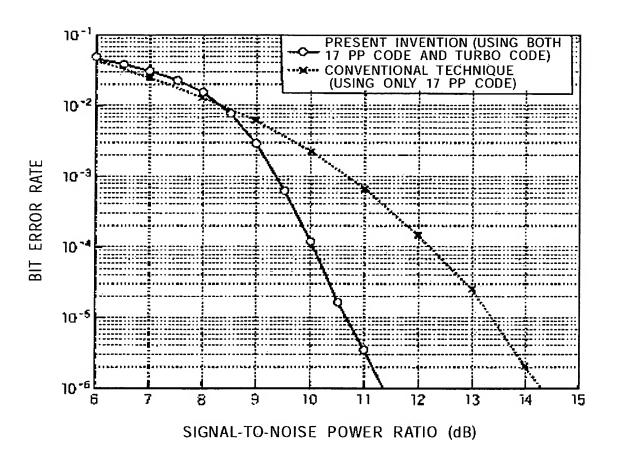


FIG. 18



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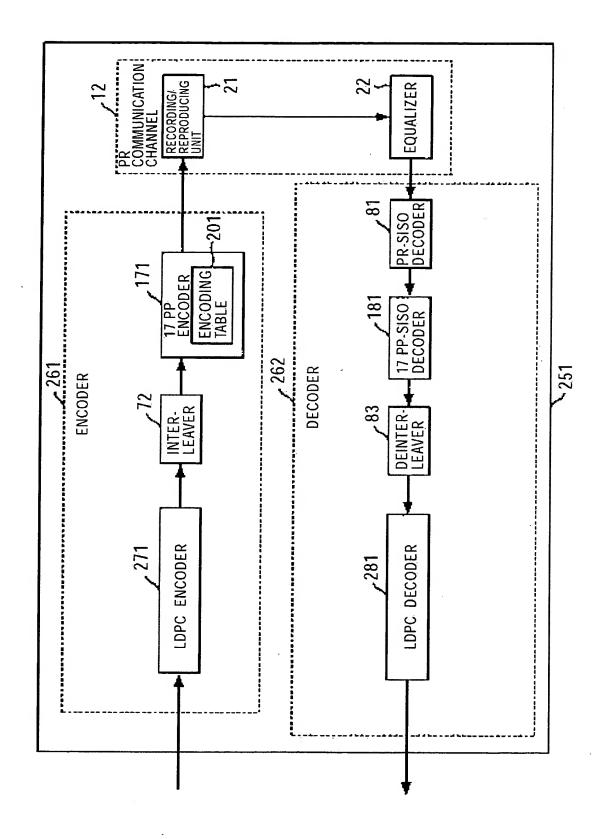


FIG. 19

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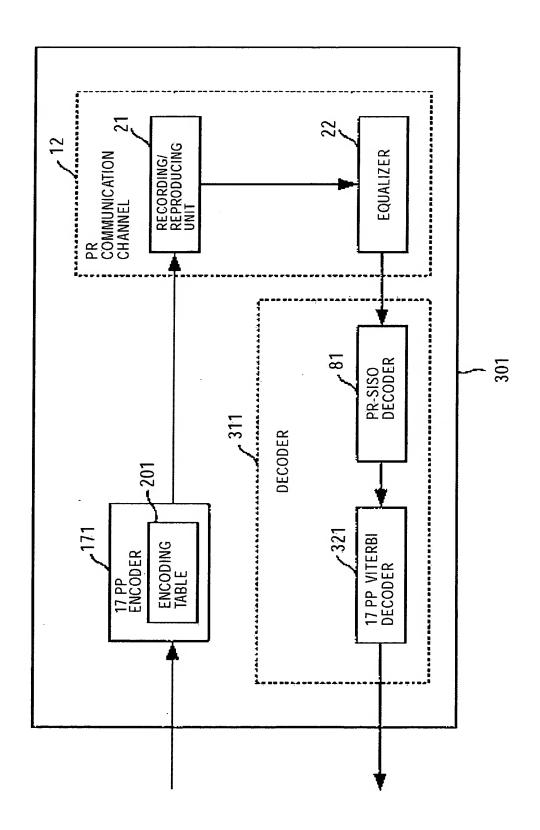
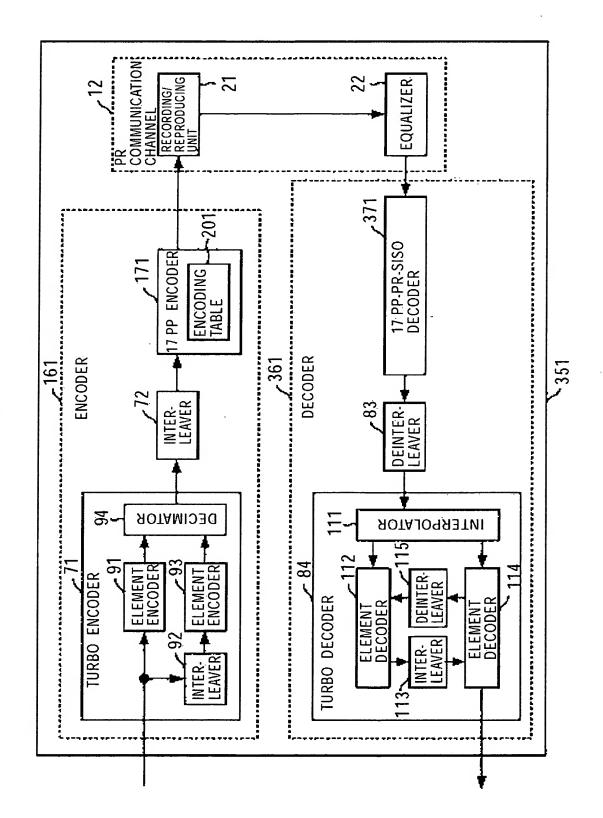


FIG. 20

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-16. 2

FIG. 22

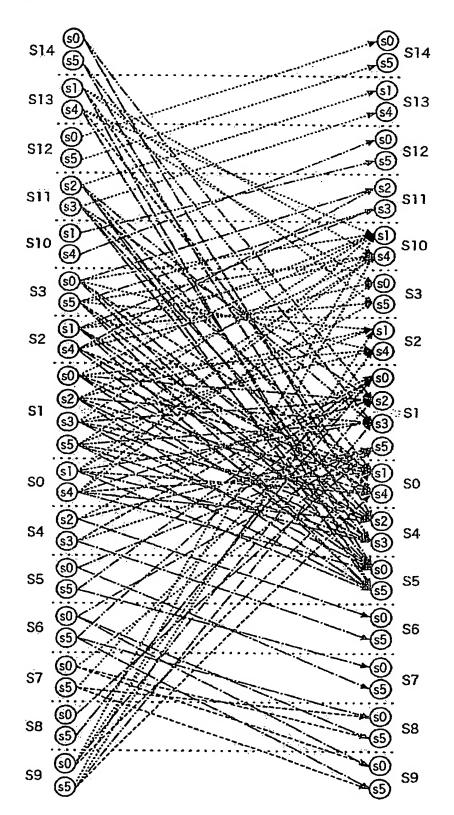
CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT	CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT
(0, 1)	01	(1, 3)	0,2,0	(1, 5)	01	(1, 3)	6,4,0
(0, 1)	10	(0, 4)	0,4,4	(1, 5)	10	(0, 4)	6,6,4
(0, 1)	00	(5, 5)	0.4.6	(1, 5)	00	(5, 5)	6.6,6
(0, 1)	00	(4, 3)	0,2,0	(1, 5)	00	(4, 3)	6,4,0
(0, 1)]]	(3, 5)	0,4,6	(1, 5)]]	(2, 1)	4.02
(0, 1)	וו	(10, 4)	0,4,4	(1, 5)	וו	(10, 4)	6,6,4
(0, 4)	-01	(1, Z)	0,-2,0	(2, 1)	01	(11, 3)	0,2,0
(0, 4)	10	(0, 1)	0,-4,-4	(2, 1)	10	(0, 4)	0,4,4
(0, 4)	00	(5, 0)	0,-4,-6	(2, 1)	00	(5, 5)	0,4,6
(0, 4)	00	(4, 2)	0-2,0	(2, 1)	00	(4, 3)	0,2,0
(0, 4)	וו	(3, 0)	0,-4,-6	(2, 1)	וו	(3, 5)	0,4,6
(O, 4)	11	(10, 1)	0,-4,-4	(2, 1)	11	(10, 4)	0,4,4
(1, 0)	01	(1, 2)	-6,-4,0	(2, 4)	01	(11, 2)	0,-2,0
(1, 0)	10	(0, 1)	-6,-6,-4	(2, 4)	10	(0, 1)	0,-4,-4
(1, 0)	00	(5, 0)	-6,-6,-6	(2, 4)	00	(5, 0)	0,-4,-6
(1, 0)	00	(4, 2)	-6,-4,0	(2, 4)	00	(4, 2)	0,-2,0
(1, 0)	וו	(2, 4)	-4,0,2	(2, 4)	וו	(3, 0)	0,-4,-6
(1, 0)	וו	(10, 1)	-6,-6,-4	(2, 4)	11	(10, 1)	0,-4,-4
(1, 2)	01	(1, 3)	4,4.0	(3, 0)	Ö1	(11, 2)	-6,-4,0
(1, 2)	10	(0, 4)	4,6,4	(3, 0)	10	(0, 1)	-6,-6,-4
(1, 2)	00	(5, 5)	4,6,6	(3, 0)	00	(5, O)	-6,-6,-6
(1, 2)	00	(4, 3)	4,4,0	(3, 0)	00	(4, 2)	-6,-4,0
(1, 2)	11	(2, 1)	2,0,-2	(3, 0)	11	(2, 4)	-4,0,2
(1, 2)	11	(10, 4)	4,6,4	(3, 0)	11	(10, 1)	-6,-6,-4
(1, 3)	01	(1, 2)	-4,-4.0	(3, 5)	01	(11, 3)	6,4,0
(1, 3)	10	(0, 1)	-46,-4	(3, 5)	10	(0, 4)	6,6.4
(1, 3)	00	(5, 0)	-4,-6,-6	(3, 5)	00	(5. 5)	6,6,6
(1, 3)	00	(4, 2)	-4,-4,0	(3, 5)	00	(4, 3)	6,4,0
(1, 3)	11	(2, 4)	-2,0,2	(3, 5)	11	(2, 1)	4.0-2
(1, 3)	11	-	-4,-6,-4	(3, 5)	11	(10, 4)	6,6,4

FIG. 23

CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT	CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT
(4, 2)	00	(6, 0)	2,0,-4	(9, 5)	10	(0, 4)	6,6,4
(4, 2)	10	(1, 5)	4,6,6	(9, 5)	11	(2, 1)	4,0,-2
(4, 2)	11	(1,0)	2,0,-4	(9, 5)	11	(10, 4)	6,6,4
(4, 3)	00	(6, 5)	-2,0,4	(10, 1)	Q1	(12, 5)	0,4,6
(4, 3)	10	(1,0)	-4,-6,-6	(10, 4)	01	(12, 0)	0,-4,-6
(4, 3)	וו	(1, 5)	-2,0,4	(11, 2)	01	(1, 3)	4,4,0
(5, 0)	-00	(7, 5)	-4,0,4	(11, 2)	10	(0, 4)	4,6,4
(5, 0)	01	(1, 5)	-4,0,4	(11, 2)	11	(13, 1)	2,0,-2
(5, 5)	00	(7, Q)	4.0,-4	(11, 2)	00	(5, 5)	4,6,6
(5, 5)	01	(1, 0)	4.0,-4	(11, 2)	00	(4, 3)	4,4,0
(6, 0)	01	(1, 5)	-4,0,4	(11, 3)	01	(1, 2)	-4,-4,0
(6, O)	00	(8, 5)	-4.0,4	(11, 3)	10	(0, 1)	-46,-4
(6, 0)	00	(9, 0)	-6,-6,-6	(11, 3)	71	(1.3, 4)	-2,0,2
(6, 5)	01	(1, Q)	4,0,-4	(11, 3)	00	(5, O)	-4,-6,-6
(6, 5)	00	(8, 0)	4,0,-4	(11, 3)	00	(4, 2)	-4,-4,0
(6, 5)	-00	(9, 5)	6,6,6	(12, 0)	11	(14, 0)	-6,-6,-6
(7, 0)	וו	(1, 5)	-4.0.4	(12, 5)	וו	(14, 5)	6,6,6
(7, 0)	10	(8, 5)	-4,0,4	(13, 1)	10	(0, 4)	0,4,4
(7, 0)	10	(9, 0)	-66,-6	(13, 1)	00	(5, 5)	0,4.6
(7, 5)	וון	(1, 0)	4.0,-4	(13, 1)	ון	(3, 5)	0,4.6
(7, 5)	10	(8, 0)	4,0,-4	(13, 1)	11	(10, 4)	0,4,4
(7, 5)	10	(9, 5)	6,6.6	(13, 4)	10	(0, 1)	04,-4
(8, 0)	00	(1, 5)	-4,0,4	(13, 4)	00	(5, 0)	0,-4,-6
(8, 5)	00	(1, 0)	4,0,-4	(13, 4)	77	(3, Q)	0,-4,-6
(9, 0)	01	(1, 2)	-6,-4.0	(13, 4)	ון	(10, 1)	0,-4,-4
(9, 0)	10	(0, 1)	-6,-6,-4	(14, 0)	01	(1. 2)	-6,-4.0
(9, 0)	11	(2, 4)	-4,0,2	(14, 0)	00	(4, 2)	-6,-4.0
(9, 0)	11	(10, 1)	-6,-6,-4	(14, 5)	01	(1, 3)	6,4.0
(9, 5)	01	(1, 3)	6,4,0	(14, 5)	00	(4, 3)	6,4.0

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FIG. 24



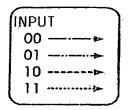


FIG. 25

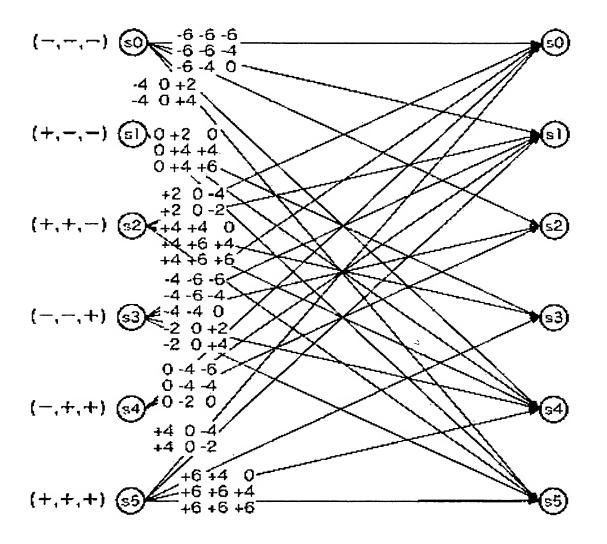


FIG. 26

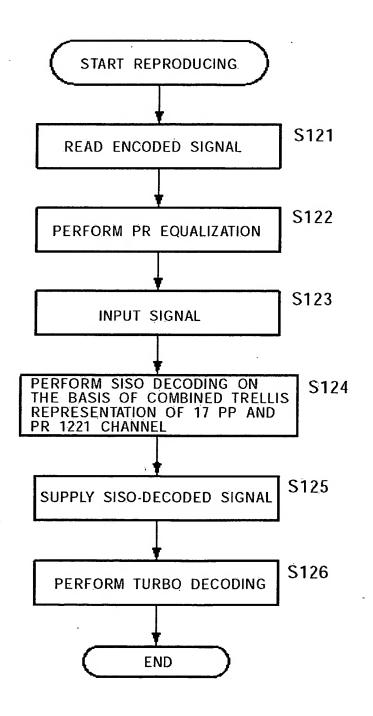


FIG. 27

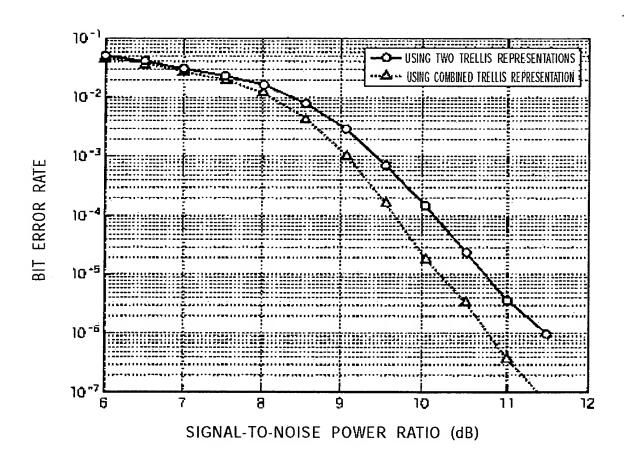


FIG. 28

FIG. 29

CURRENT- TIME STATE	CURRENT- TIME INPUT	NEXT- TIME STATE	CURRENT- TIME OUTPUT
(9, 0)	01	(1, 3)	-4,-2,2
(9, 0)	10	(0, 1)	-4,-4,-2
(9, 0)	17	(2, 2)	-2,2,2
(9, 0)	71	(10.1)	-4,-4,-2
(9, 3)	01	(1,0)	4,22
(9, 3)	10	(0, 2)	4.4,2
(9, 3)	11	(2, 1)	2,-2,-2
(9, 3)	וו	(10, 2)	4,4,2
(10, 1)	01	(12, 3)	2,4,4
(10, 2)	01	(12, 0)	-2,-4,-4
(11, O)	01	(1, 3)	-4,-2,2
(11,0)	10	(0, 1)	-4,-4,-2
(11,0)	11	(13, 2)	-2,2,2
(11, 0)	00	(5, 0)	4,-4,-4
(11, 0)	00	(4, 3)	-42.2
(11, 3) (11, 3)	01 10	(1, 0) (0, 2)	4,2,-2
(11, 3)	11	(13, 1)	4,4,2 22,-2
(11, 3)	00	(5, 3)	4.4.4
(11, 3)	00	(4, 0)	4,2,-2
(12,0)	11	(14, 0)	-4,-4,-4
(12, 3)	11	(14, 3)	4,4,4
(13, 1)	10	(0, 2)	2,4.2
(13, 1)	00	(5, 3)	2,4,4
(13, 1)	71	(3, 3)	2.4.4
(13, 1)	77	(10, 2)	2,4,2
(13, 2)	10	(O, 1)	-2,-42
(13, 2)	00	(5, 0)	-2,-4,-4
(13, 2)	71	(3, 0)	-2,-4,-4
(13, 2)	17		-2,-4,-2
(14, 0)	01	(1, 3)	-4,-2,2
(14, 0)	QQ	(4, 3)	-4,-2,2
(14, 3)	OJ	(1, 0)	4,2,-2
(14, 3)	QΟ	(4, 0)	4,2,-2

